

Figure 1A

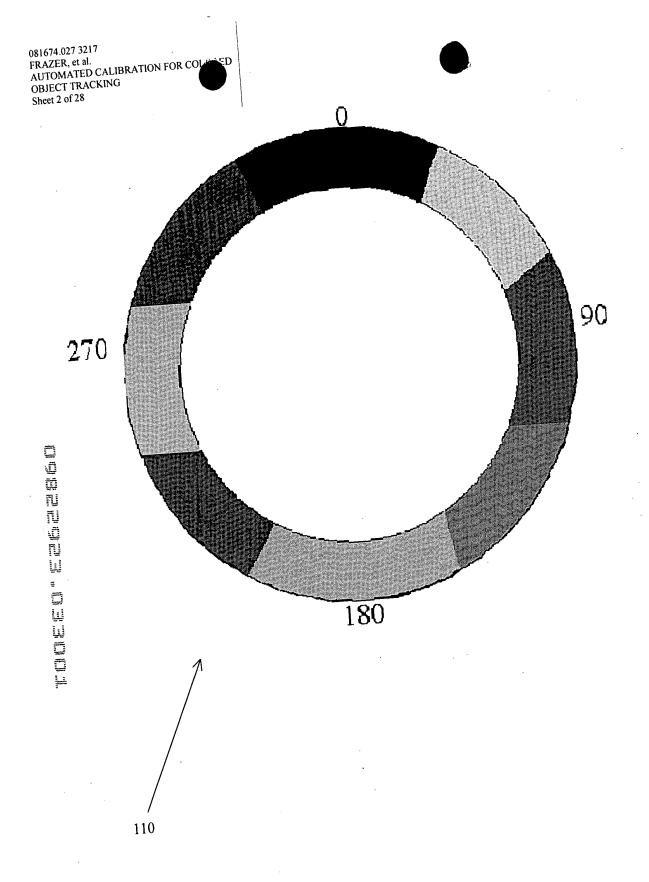


Figure 1B

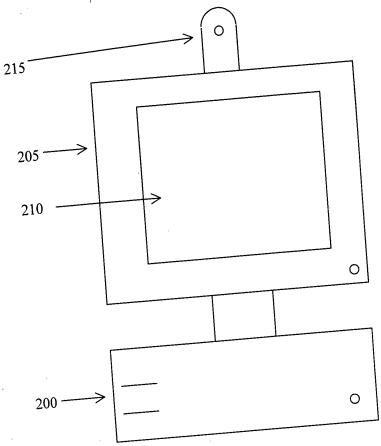


FIGURE 2

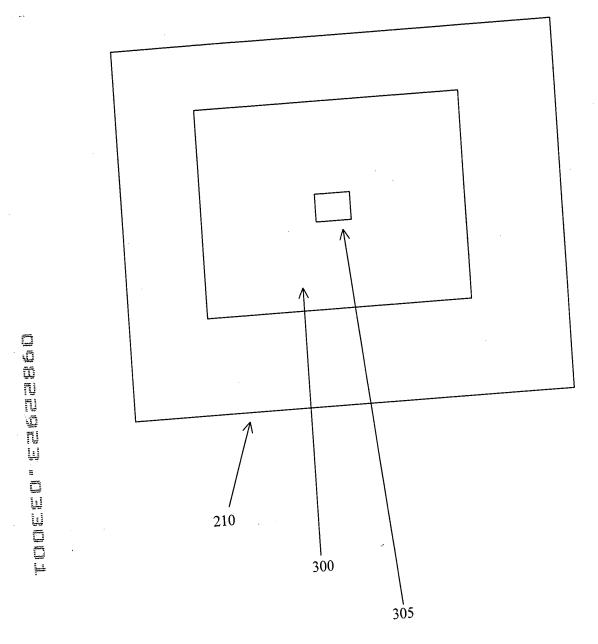
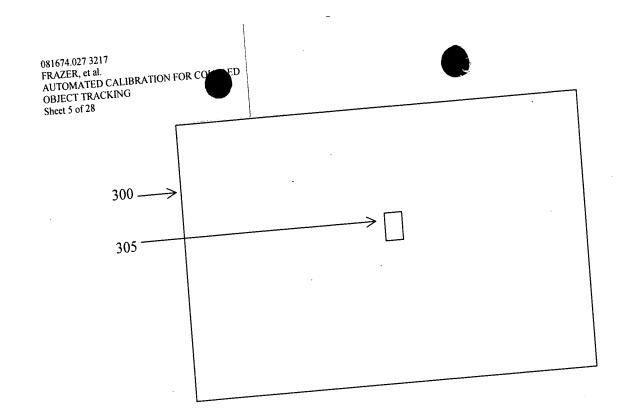


Figure 3



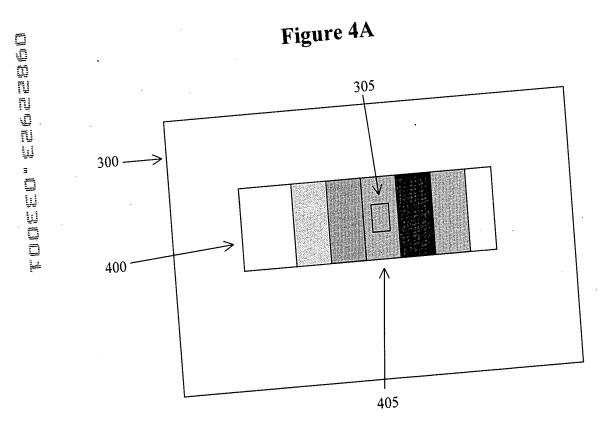


Figure 4B

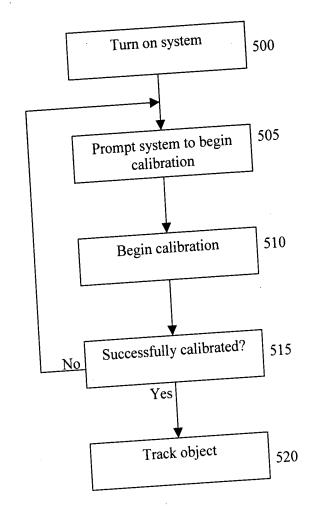


Figure 5

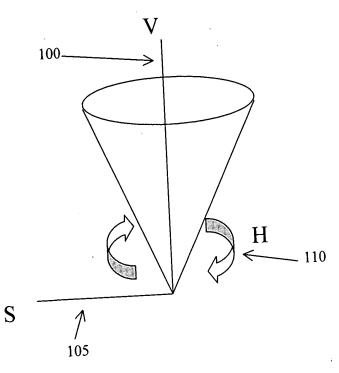


Figure 6A

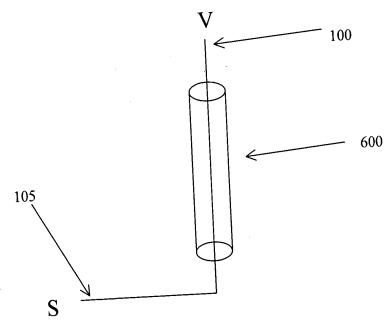


Figure 6B

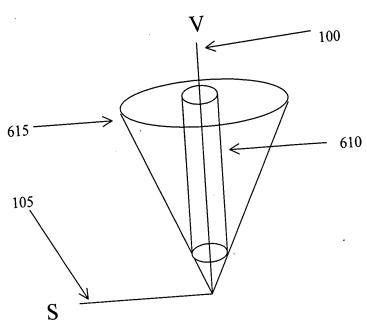


Figure 6C

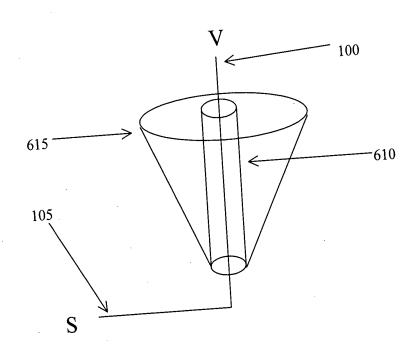


Figure 6D

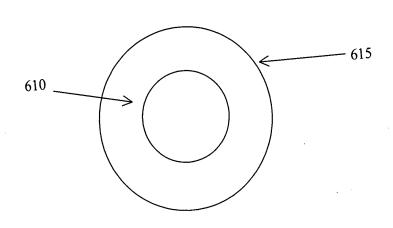
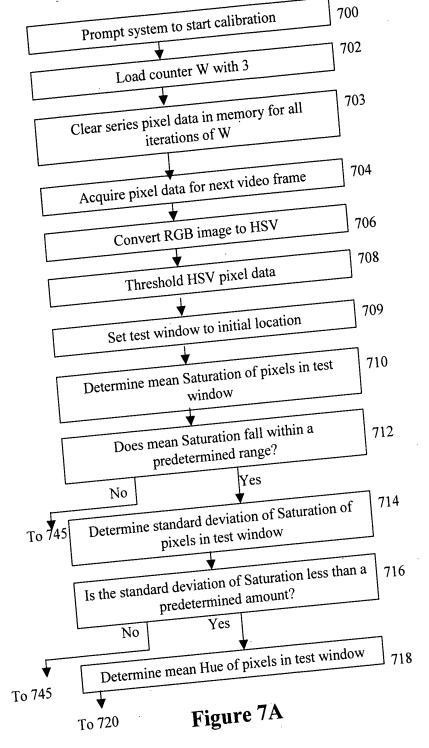
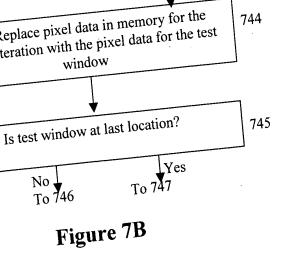


Figure 6E







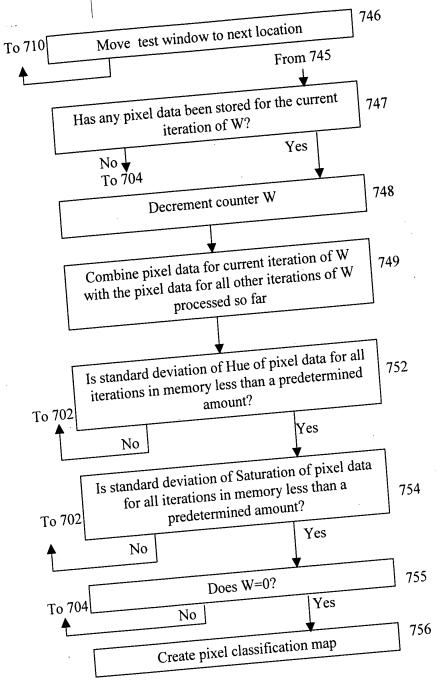


Figure 7C

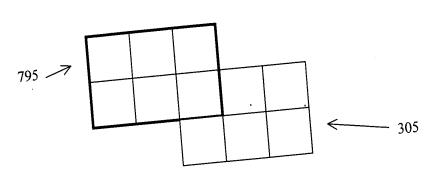


Figure 7D

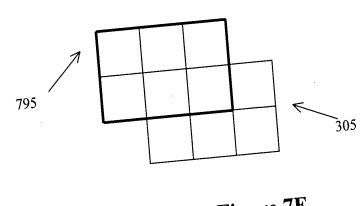


Figure 7E

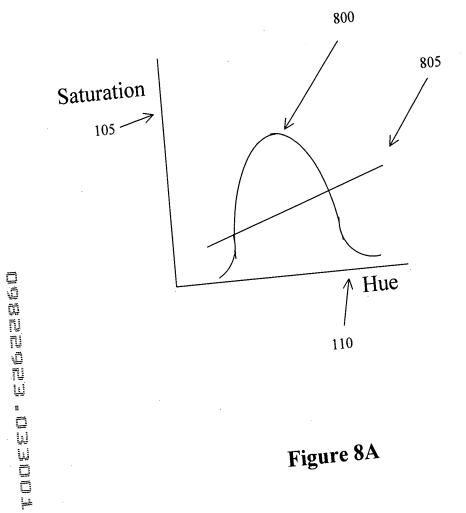


Figure 8A

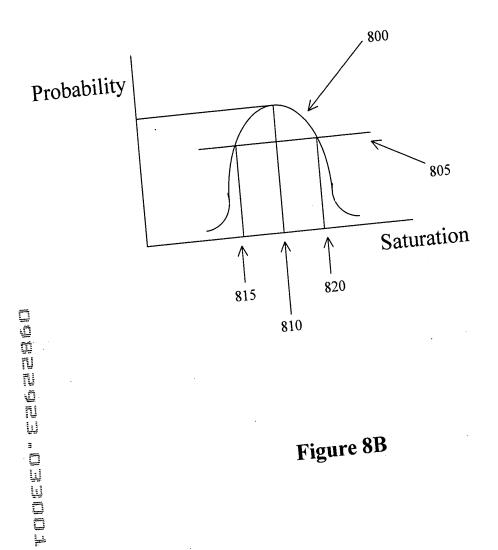


Figure 8B

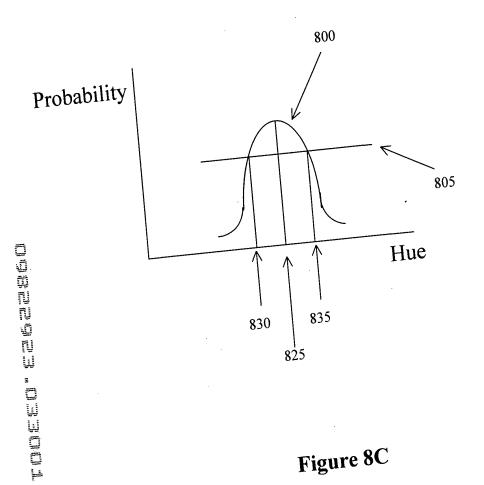


Figure 8C



Pixel Classification Map

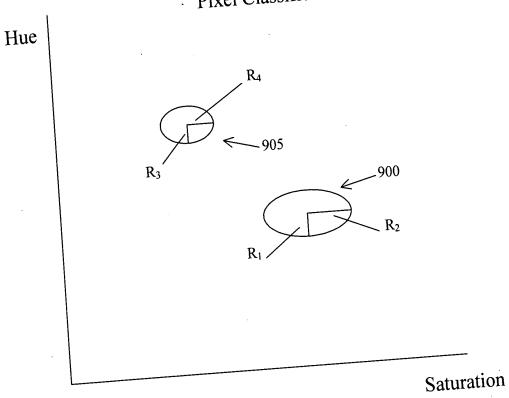


Figure 9

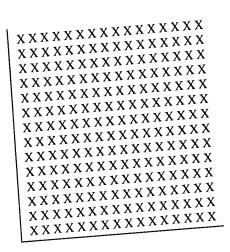


Figure 10

Y

001001011100000 $0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 1$ $0\ 0\ 0\ 0\ 1\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0$ $0\ 0\ 0\ 0\ 0\ 1\ 1\ 1\ 1\ 1\ 0\ 0\ 0\ 0\ 0$ 0100011110101000 0001001111000000 $0\ 0\ 0\ 0\ 0\ 0\ 1\ 1\ 1\ 0\ 0\ 0\ 0\ 0\ 0$ 000000000000000100

Figure 11

 \mathbf{X}

Histogram in X-direction

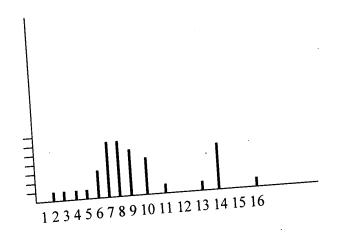


Figure 12A



Histogram in X-direction after application of low-pass filter

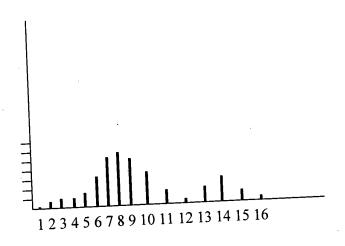


Figure 12B

Histogram in Y-direction

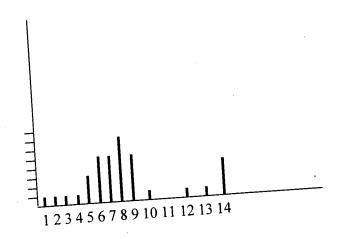


Figure 13A

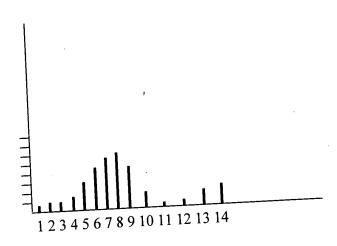


Figure 13B

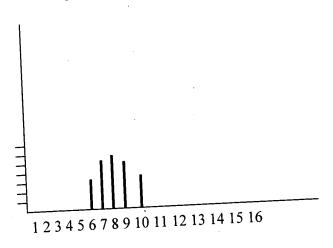


Figure 14

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Histogram in Y-direction (After thresholding)

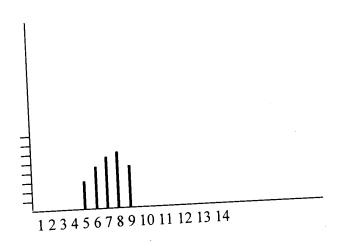


Figure 15



Search Window

Y .	123430707111111111111111111111111111111111	X
	10 12 14 10	

Figure 16

Figure 17

Figure 18